

IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF MARYLAND  
NORTHERN DIVISION

-----x. **COPY**  
IN THE MATTER OF THE COMPLAINT )  
OF ETERNITY SHIPPING, LTD AND )  
EUROCARRIERS, S.A. FOR ) Case No.:  
EXONERATION FROM OR LIMITATION ) L01CV0250  
OF LIABILITY )

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Deposition of R. MICHAEL PARNELL

Baltimore, Maryland

Friday, October 7, 2005

9:10 a.m.

Job No.: 1-64603

Pages 1 - 163

Reported By: Sherry L. Brooks

1 field notes are?

2 A. Well, I guess the first place to start is I  
3 have -- eight pages are marked in the lower right-hand  
4 corner with Numbers 1 through 8, and so those are the  
5 primary documents that I either had in my hand. Number  
6 1 is a back-at-the-office type sheet that I produced as  
7 a result of 2 through 8, so it's just, so it's a  
8 summary of those items.

9 Q. Where did you record the measurements that  
10 you took?

11 A. Well, I have a measurement up at the top  
12 left of 3, 27.3 to 28.5. And I have at the top of 6 in  
13 the left-hand column, I have 27.3 to 28.5 millimeters.  
14 Are you on page 6?

15 Q. Yes. Is that the range of measurements you  
16 took?

17 A. Yes. It appeared to me the -- what I call  
18 the working section, the section of rope that gets  
19 through the sheaves the most, runs through the sheaves,  
20 typically has some small reduced diameter and  
21 lengthening of lay. And typically back at the drum end  
22 which a portion of that rope lays on the drum

1 types of breaks under that or separation, so broken  
2 wires just indicates separations.

3 Q. Now, you mentioned prior damage. Can you  
4 tell us what you meant by prior damage?

5 A. Practically all of the torn wires that I saw  
6 -- well, I guess I'll make -- at the top of page 2 in  
7 the upper right-hand corner, I didn't find any fatigue  
8 breaks or broken wires at the socket, which is from  
9 vibratory activity, so it's at page 2 in the top  
10 corner.

11 So fatigue breaks would be from lots of  
12 cycles and vibratory fatigue can occur at a socket  
13 since it's the dampening point for which the rope is  
14 rusted and worries so that to the best of my  
15 recollection all the breaks I found were a subject of  
16 obstructional contact, tears, external stripping you  
17 might say of the rope surface and the wires.

18 So at the broken wires, they were -- nearly  
19 all of them contained corrosion and pitting on those  
20 wires at the separation point. Once a wire gets ripped  
21 and peeled, it stands up.

22 It may not have lube on it anymore. It may

1 Q. Did you see anywhere in the Coast Guard  
2 report where the Coast Guard made an observation -- the  
3 Coast Guard investigating officer made an observation  
4 that there was corrosion and pitting in the break area  
5 of the wire rope?

6 A. I believe I did. Do you want me to find it,  
7 see if I can find it?

8 Q. Yes. It's in your binder.

9 A. I have a Coast Guard insert in the very  
10 back.

11 Q. I'll direct your attention to the bottom of  
12 your written page 12 circled. It talks about, quote,  
13 the luffing wire had preexisting damage?

14 A. Right.

15 Q. And it talks about -- it goes on to talk  
16 about three of the six strands appear to have been  
17 pinched or cut. Do you see that?

18 A. Yes.

19 Q. Maybe you saw it somewhere else, but I  
20 haven't, so I'm really looking to see if there's an  
21 area that you relied on that said that there was  
22 corrosion and pitting in the break area.

1 MR. ASPERGER: The document speaks for  
2 itself. Is this just a test of his memory or where are  
3 you going with this?

4 MR. CLYNE: That's fair.

5 BY MR. CLYNE:

6 Q. I'm -- I guess my question is, other than  
7 what you saw, are you relying on anything else to  
8 support your conclusions about pitting and corrosion?

9 A. Other than my own observations -- well, I  
10 guess to answer that, I would need to go back and  
11 research at least the three other experts on their  
12 reports to see if they've made active comments because  
13 I don't have an immediate recall of every statement by  
14 every expert on the other side here.

15 I think Pop -- I believe Pop said yesterday  
16 that he saw corrosion. It's just not a secret.

17 Q. Did he say that he saw pitting?

18 A. I don't recall. I guess we'd have to look  
19 at the transcript.

20 Q. Okay.

21 A. But I'm not answering yes or no. I just  
22 have to go back through the other expert reports and

1 see if any corrosion was remarked by those gentlemen.

2 Q. Let's go back to your inspection. Did you  
3 do the measurements first?

4 A. Diameter measurements.

5 Q. Did you?

6 A. Yes.

7 Q. Okay. And what did you do next?

8 A. Well, I went sample by sample starting from  
9 A to F and looked at the physical condition, estimated  
10 the approximate length of those rope sections and  
11 recorded those to the best of my ability and noted the  
12 damage as I came upon damage.

13 Sometimes I would clean or rub grease away  
14 with a rag. Sometimes I would spray on some degreasing  
15 agent to get down to as bare wire as possible and then  
16 I get to what -- to the failure point.

17 I spent considerable time looking at the  
18 north looking south and south looking north on those  
19 two separation points for physical damage, external  
20 damage, metal loss, gouging, all the things that --  
21 because the failure as I noted initially had not  
22 occurred from fatigue breaks from lots of cycle bending

1 or at the socket connection, so what else could  
2 contribute to this rope failing.

3 I noticed that the failure was somewhat  
4 staggered in the immediate area. A cluster of strands  
5 -- wires make up strands. Strands make up the ropes,  
6 so a cluster of strands as a group had failed in  
7 sequence and in series.

8 One in particular had given up last and that  
9 appeared to have almost all tensile breaks. There were  
10 cup and cone and sheer type tensile failures, so  
11 whatever had happened to the rope body, it appeared  
12 that that strand gave up last just from pure load  
13 tension. And then moving down the rope continued to  
14 remark about any other damage that I found.

15 Q. Did you record in your notes exactly where  
16 you found the corrosion and the pitting?

17 A. They were almost all associated with the  
18 individual wires that I found either by feel or by --  
19 that were sticking up and I cleaned those off and  
20 that's where I found the corrosion and pitting most  
21 generally.

22 And then on some adjacent wires that were

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1 laying by those torn wires that were not torn, cleaned  
2 that rope section off 2, 3 or 4 inches either way and  
3 looked at those and there was some slight corrosion and  
4 pitting against those as well.

5 Q. So you degreased the wire --

6 A. You have to do the inspection.

7 Q. -- and then saw it? And you saw some wires  
8 sticking up; is that right?

9 A. Yes.

10 Q. And that's where you found the corrosion?

11 A. There was sometimes corrosion adjacent to  
12 those torn wires on adjacent wires.

13 Q. Did you review the testimony of any of the  
14 Eurocarriers' personnel that were in this shipyard in  
15 1999 when the cranes were refitted to the Leon I?

16 A. No, I did not.

17 Q. So you don't know what the details are with  
18 respect to the removal of the wire ropes from the  
19 vessel the Yannis K and the inspections that were done  
20 at that time; is that right?

21 A. Correct. All I was able to review was Roy  
22 Graham's phone testimony, deposition.



1 Q. I'd like to focus now on your letter dated  
2 June 16th, 2005 regarding the Sayenga conclusions and  
3 I'm going to work backwards. I want to go to the end  
4 of the report, paragraph C. Do you see that?

5 A. Yes, sir.

6 Q. Is that your opinion of the probable cause  
7 of this accident?

8 A. Let me read it.

9 Q. Sure.

10 A. Yes.

11 Q. When you say that the Leon I's crane Number  
12 4 had been boomed up to this extreme high angle, what  
13 do you mean by that?

14 A. The extreme high boom angle, that was stated  
15 throughout the case.

16 Q. You'll agree with me that that's a dangerous  
17 practice, isn't it?

18 A. Well, describe the practice to me if you  
19 wouldn't mind. Give me a little more information so I  
20 can see if I can agree with you or not.

21 Q. Well, that's what I'm doing. I'm probing  
22 extreme high angle and what that means.

1           A.     Well, you can have an approved extreme high  
2 angle and there's cautions with that. You can have an  
3 unapproved extreme high angle and there would be other  
4 problems with that, so if that -- I'm not looking to be  
5 argumentative. If I'm going to agree to something, I  
6 want to understand what you're trying to say.

7           Q.     Fair enough. Well, you're saying that it  
8 makes complete sense that the crane Number 4 had been  
9 boomed up to an extreme high angle at some other time  
10 in its recent life span, right?

11          A.     Yes.

12          Q.     What do you mean there by recent life span?

13          A.     That wires at the failure point displayed  
14 corrosion and pitting and flattening -- extreme  
15 flattening on some wires with pitting in the flattened  
16 areas. That was all damage and they were in the  
17 immediate failure area of those strand wires.

18                 They had been impacted prior to the day of  
19 the incident. They had already been scrubbed, gouged,  
20 cut and degreased to a point by some combination of  
21 events, washing, rain and wiping, etc., scrubbing that  
22 can do that and exposed to air.

1           So we have physical and mechanical damage  
2           and we also have environmental damage prior to the day  
3           of the failure. In addition to that, there were some  
4           wires that looked fresh -- that had fresh shearing and  
5           then we had a whole other bundle strand that had pure  
6           tensile breaks.

7           So what I saw that it had been done in its  
8           recent life span, the rope that failed -- the rope  
9           section that failed here had been significantly damaged  
10          prior to this date of the accident to July 29th, 2000.

11          Q.     Okay. By recent life span, are you saying

12          --

13          A.     That's an undefined time.

14          Q.     You don't have any idea what kind of time  
15          frame you put on that?

16          A.     Well, I understand that -- from reading Mr.  
17          Graham's document, it looked like that -- I thought  
18          that these were less than five-year-old ropes at a  
19          point in time at the refit, 5 1/2 years, so I don't  
20          know -- within that life span, I can't give you the  
21          date and time.

22                 I mean, it's -- it could have been on the

1 second day it was installed and then it was -- you  
2 know, from its very first usage, it could have been  
3 that.

4 Q. Installed on the Leon I?

5 A. No. Installed on that crane because that  
6 rope sits and works with that --

7 Q. Installed on what crane?

8 A. Number 4.

9 Q. Okay. So you're -- you're talking about  
10 recent life span. You're talking about for the period  
11 of time that these wire ropes were installed on the  
12 Leon I; isn't that right?

13 A. No, because the crane came from another  
14 vessel. It's in its entire life span.

15 Q. So recent life span means entire life span?

16 A. Well, yes. I wouldn't want to make too much  
17 out of recent.

18 Q. These are your words, sir. It's not mine.

19 A. Yes.

20 Q. And you can't -- all right. And you can't  
21 define that any further; is that right?

22 A. Correct.

1 identification and was attached to the deposition.)

2 BY MR. CLYNE:

3 Q. Just for the record, we've marked as Parnell  
4 Number 5 a sketch that Mr. Parnell has made. Can you  
5 tell us what's being depicted there?

6 A. It's the -- it's just a characterization of  
7 the top of the mast where the wire ropes for the main  
8 hoist and luffing wire, the boom hoists, come out and  
9 work -- go either top of the boom and read through the  
10 system.

11 The dotted line simulates the luffing wire  
12 coming off the drum, which is down below in the lower  
13 portion of the pedestal apparently from the depositions  
14 and it's existing right up through and it's passing  
15 very close in this high boom angle position. It passes  
16 very close to a sheave guard, which is a curved steel  
17 plate over the top.

18 You'll see the notches right here and those  
19 are designed in effect to try to have as much weather  
20 protection as keeping the rope in the sheave.

21 There's -- all cranes are required to have a  
22 means for retaining the rope and a slat condition in

1 the sheave that they're carried in, so it's either done  
2 by tie bars, tiepins or a steel plating is covered to  
3 keep close to the sheave rim for a certain portion to  
4 keep the rope in the track.

5 When you boom up too high, I sincerely  
6 believe that's what cut the rope and that sheave notch  
7 -- that guard notch right there is easy to get into.  
8 It's only cut to a minimum gap or spacing for normal  
9 boom operations would be generally the idea because you  
10 want to keep the weather and the water and all the  
11 other stuff -- you want to keep it to a minimum and  
12 keep the rope in.

13 So that notch does not go down over the top  
14 and back of the mast so that it's well up on the --  
15 it's well up on the sheave rim, so I believe when they  
16 boomed up previously they had incurred some contact,  
17 caused some scrubbing, caused some damage --

18 Q. Caused some contact with what?

19 A. The rope scrubbed the steel plate. That's a  
20 curved steel plate right there at the top and it curves  
21 right up and it separates and there's two -- the plate  
22 continues to run across and the sheaves sit right

1 between them. When you boom up too high, your rope can  
2 hit the back end of that notch.

3 Q. All right. And that would be true no matter  
4 what diameter the rope was, right?

5 A. Well, if this crane was made for 26  
6 millimeter rope and it had 28 millimeter in it, the  
7 rope would not be sitting in the bottom of the tread of  
8 the sheave as it should be. It would be riding higher  
9 in the sheave.

10 So whatever angle problem we would have here  
11 and potential contact would be amplified because I  
12 think we had a mismatch rope.

13 Q. But -- well, you've never seen the rope  
14 certificate, have you, for this particular wire?

15 A. I believe the Coast Guard called out that  
16 the rope required for this crane was 26 millimeter and  
17 it gave a rope description, so that's the information I  
18 went on that that was supposed to be the diameter and  
19 then hence the sheaves that IHI installed here should  
20 have been to the 26 millimeter as well.

21 When you put a fat rope in that, it won't  
22 sit and it rides too high or rides high. And any kind

1 of booming up like this that rope is already high out  
2 of the sheave and it would be more inclined to contact  
3 that plate guard than a 26 millimeter would by tiny  
4 fractions, so I believe that contributed to it.

5 Q. But you don't know how -- what the actual  
6 diameter of the sheave was, do you?

7 A. The diameter as being 18 inches or 24 inch  
8 diameter and so on?

9 Q. Yes.

10 A. The diameter of the tread is the OD. The  
11 tread contour?

12 Q. Yes, the tread contour.

13 A. No, I don't.

14 Q. And you don't know based on the -- when  
15 sheaves like that are used, doesn't that contour sort  
16 of flatten by virtue of the rope being -- or actually  
17 widen a bit because of the friction with the wire rope  
18 running through it?

19 A. Technically what happens in a soft sheave,  
20 meaning it's not flame hardened, a sheave that's  
21 somewhat softer than the rope, as the rope gets longer  
22 and narrower, you would typically cut a narrower



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1 today?

2 A. I think -- well, the evidence that I saw in  
3 the rope, the damage, even the gouging marks appeared  
4 to be -- the wires were gouged in the direction along  
5 the steel surface in that the ropes being pulled into  
6 it and you pushed back the steel and you slice through.

7 And that was very consistent with other cut  
8 failures that I've seen, so that even the metal  
9 movement was very consistent. So the evidence that I  
10 saw tells me that we have a problem, which would arise  
11 from this question 3 that we would likely have contact  
12 there.

13 Q. But you don't know what the actual boom  
14 angles that were utilized while this vessel was in  
15 service prior to the casualty, do you?

16 A. I'm sorry, sir?

17 Q. You don't know or you don't have any  
18 evidence that prior to the casualty -- and I'm not  
19 talking about the day of the casualty, but prior to --  
20 that this crane Number 4 on the Leon I was being  
21 operated at 78 degrees or higher?

22 A. There was severe chafing and scrubbing,

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1 metal displacement and loss with embedded corrosion and  
2 pitting in the wires that were in the immediate --  
3 within millimeters of the ends of the failures at the  
4 separation point.

5 That wire had been severely chafed and cut,  
6 certain wires had been chafed and cut prior to the day  
7 of the accident. How long before, I don't know, but  
8 there was immediate -- immediate is locational --  
9 damage in that region.

10 Q. If we look at -- I'm going to flip just a  
11 couple pages ahead. There's a whole bunch of questions  
12 that start with the title metal loss and corrosion.  
13 And there's a -- if you turn to the second page about  
14 three-quarters of the way down the page there is a  
15 title wire rope diameter. Do you see that?

16 A. Yes.

17 Q. Now, I take it that these are questions that  
18 you were assisting Mr. Asperger with when he was  
19 questioning other experts; is that right?

20 A. Yes, sir.

21 Q. Okay. I'm looking specifically at Number 2,  
22 which states, quote, once a wire rope relaxes without

1 criteria based on diameter and number of diameters and  
2 the construction of the rope.

3 Q. Well, let me ask you this: Are you  
4 suggesting there that ABS during its inspection in the  
5 shipyard in China in November and December of 1999  
6 should have been able to identify the existing damage?

7 A. I don't know if the damage was existing on  
8 that day in China.

9 Q. You can't say one way or the other; is that  
10 right?

11 A. I can't say, correct.

12 Q. So if I were to tell you that Mr. Hislop  
13 rendered an opinion that there was preexisting damage  
14 on the wire rope while the vessel was in China, you  
15 would disagree with that statement that he could make  
16 that --

17 A. No, I wouldn't disagree with that.

18 Q. Why wouldn't you disagree with it?

19 A. That's Mr. Hislop's opinion.

20 Q. But you can't say one way or the other  
21 whether it was preexisting damage; isn't that right?

22 A. The corrosion that I saw and the damage I

1 saw was accruable between the day of the accident  
2 backwards to the day it left China. It could have  
3 happened anywhere in there especially with the  
4 corrosion and pitting that was there in a six month  
5 window and it could have happened before, that as well,  
6 so I don't have a window to say.

7 Q. But to say it did happen before that would  
8 be speculating, wouldn't it?

9 A. Mr. Hislop's assumption may be based on some  
10 things he saw that I didn't see for some reason, and I  
11 have to go to that place wherever you were quoting  
12 from and sort of try to understand what his statement  
13 really is.

14 MR. CLYNE: I'm going to pass the  
15 questioning to Mr. Whitman at this time.

16 MR. WHITMAN: Let's take 45 minutes.

17 (Luncheon recess.)

18 EXAMINATION BY COUNSEL FOR DEFENDANT

19 ETERNITY SHIPPING, LTD AND EUROCARRIERS

20 BY MR. WHITMAN:

21 Q. Mr. Parnell, my name is Tony Whitman. We  
22 met earlier and I represent the owners and managers of

1 do you use the term meat hook?

2 A. No.

3 Q. What term do you use to describe that  
4 condition?

5 A. Well, the wires are gouged and peeled and  
6 the wires are splayed. I've used that word before, the  
7 wires are turned, and I have used fishhook, so they're  
8 all giving a mental image of the wire lifting up or  
9 it's off the surface of the rope and bending some  
10 direction.

11 Q. You were here yesterday for the deposition  
12 of Captain Pop; is that right?

13 A. Yes, sir.

14 Q. What, if anything, did Captain Pop's  
15 testimony add to the bases of any opinions that you  
16 have in this case?

17 A. What did he say that would add to my  
18 opinion?

19 Q. Yes, sir, or would support any opinions that  
20 you have in this case.

21 A. I think the strongest piece of information  
22 that I heard was that he felt strongly that there were

1 -- there was prior damage to the rope before the  
2 accident based on what -- he also saw corrosion and  
3 other physical damage.

4 He did not feel like that it had happened at  
5 the moment and instant of the incident with the boom  
6 falling and all this damage occurred over at one  
7 instant time. I got the general gist of it was he felt  
8 it had occurred at some time in the past and was there  
9 on the day of the accident. Does that answer your  
10 question?

11 Q. Is there anything else that he said that you  
12 believe supported your opinion?

13 A. Yes. Actually, he said that there was  
14 relatively no clearance between the side of the sheave  
15 and the sidewall in which the sheave rests and would be  
16 nearly no -- well, in his fact, the rope could not come  
17 off the sheave sideways and go down along the wall and  
18 then sheer across the sheave panel, which was -- would  
19 be the natural event.

20 He indicated there was no way based on his  
21 inspection -- and he was on that ship numerous days  
22 after the accident from what he said, and he looked at

1 a number of the pictures.

2 And he said that there was no way that the  
3 rope could have come off sideways off the sheave. And  
4 in my remarks to Mr. Sayenga and some of the other  
5 experts, there was a continuing -- at least in Mr.  
6 Sayenga's, I believe, there's a continuing concept that  
7 the rope could have possibly failed in his opinion  
8 around a small radius failure.

9 And I didn't think the rope physically  
10 represented that kind of failure and Mr. Pop or Captain  
11 Pop confirmed that in his opinion the rope couldn't  
12 have come off sideways and performed in that way and  
13 failed in that way.

14 Q. Did you have occasion to look at the  
15 photographs that Captain Pop had with him yesterday?

16 A. I don't know if I saw all of them, I mean,  
17 to be real frank with you.

18 Q. Let me see if I can put in my own words your  
19 theory of how this happened. We have here Parnell  
20 Exhibit 5 which shows, as I understand it, the housing  
21 at the top of the actual crane cab itself on the Leon  
22 I; is that right?

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1 the wire rope would have contacted the sheave guard or  
2 the sheave guard in the configuration as you've  
3 described it?

4 A. Yes, sir.

5 Q. You've done calculations?

6 A. Yes, sir, for length.

7 Q. And for length of the wire rope?

8 A. Yes, sir.

9 Q. And where are those calculations?

10 A. Well, there's some simple calculations here  
11 on the side, but at a boom -- at -- because there's no  
12 exact boom length on this drawing. There are radiuses  
13 identified and angles, but between a -- with a 56-foot  
14 boom, I estimated based on the scale here to 60-foot  
15 boom length.

16 That gave me somewhere between about 112 to  
17 120 foot of rope was a target area that we might have  
18 this contact. The reeving appears to me that the  
19 luffing hoist socket dead ends back at the mast end.  
20 How far it's in or how much extra rope is taken up by  
21 wherever it's connected it is to be not --

22 Q. You don't know?



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1           A.     I don't know the exact footage, but it's  
2 really close when you come from the mast area and you  
3 -- with a dead end socket, you go out to the boom point  
4 for your run and come back.

5                     At the first entry point right there, you're  
6 very close to the footage that Captain Pop came up with  
7 as -- 115 foot 9 plus 11 feet would be 126, 127 feet,  
8 and that 127 is to the failure point and I just  
9 eyeballing it came up within maybe 120 foot.

10                    And I don't know how much rope is taken to  
11 make that socket attachment at the base of that mast,  
12 so I'm within very few feet of that rope section that  
13 failed being right at that top mast point at the moment  
14 of failure and at the contact point.

15                    Additionally, the Coast Guard by their  
16 evidence suggested there were rope -- shreds of rope,  
17 fiber rope core still around that immediate sheave mast  
18 area, and I believe Captain Pop in one of his reports  
19 indicated the same piece of information.

20                    It drove me back that I started to  
21 understand where the failure occurred based on the  
22 footage mark and the attachment of the reeving system

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1 and that top mast sheave area looked like the exact  
2 failure point to me.

3 Q. Okay. Other than these length calculations,  
4 did you do any calculations of angle to determine  
5 whether in fact the wire rope would rub against the  
6 sheave guard?

7 A. I -- on this chart, on this drawing --

8 MR. ASPERGER: For the record, can we  
9 identify the dates?

10 MR. WHITMAN: We did.

11 THE WITNESS: There is some angle noted here  
12 and it appears to be as a copy of a copy of a copy --  
13 it says ABT 70 something degrees. Whether that's 78  
14 degrees -- and ABT, I don't know if that's about 78  
15 degrees, but I have no protractor scale or arranged  
16 diagram which is technically what should reflect the  
17 exact boom angle.

18 This is a very simple schematic and the boom  
19 stops are not shown or located such that how much --  
20 and how much compression can the boom stops take, which  
21 means you can continue -- you may be able to continue  
22 to boom up -- you know, it's --

1 condition?

2 A. Pop saw corrosion at the failure point. I  
3 saw corrosion and pitting at the failure point and  
4 scrubbing -- old scrub, old metal loss and it could not  
5 have occurred in a single event on that same day.

6 Q. Would the scrubbing cause corrosion?

7 A. The scrubbing removes lubricant and once we  
8 had bare steel exposed will likely -- well, we will  
9 attract corrosion, oxidation on the surface and then it  
10 will start eating into the steel.

11 It's the removal of lubricant that's the  
12 problem, as well as the metal loss which is  
13 structurally a problem, but the lubricant going away  
14 is -- the corrosion action starts up.

15 Q. Okay. You were referring to notes which  
16 appear to have been made by you on a copy of -- your  
17 copy of the Cedar Stav Deposition Exhibit 3, which is  
18 Captain Pop's October 15 report. These notes are notes  
19 which you took during Captain Pop's deposition  
20 yesterday?

21 A. Yes, sir.

22 Q. And in preparation for today's deposition?

1 and then go to those hot spots first of all because  
2 that's likely where you're going to have the greatest  
3 amount of views and degreasing those specific areas.  
4 Take a look at those wires at the surface.

5 We're also checking for fatigue breaks and  
6 for cycle loading, so there's lots of things you have  
7 to get down and bear wire to identify.

8 Q. The area where you believe the failure  
9 occurred, would that be one of the hot spots in a crane  
10 like the Leon I?

11 A. In that case, it's not a production crane.  
12 It's a utility crane, so it has to be able to reach all  
13 over the hold, and you would -- you would inspect  
14 sections of that rope at intermittent intervals.

15 In my opinion, I wouldn't -- there wouldn't  
16 be any -- besides the infittings, there's no hot spot  
17 in that rope since the boom has to have full range of  
18 motion and work in its entire throw, so that would be  
19 an overall rope inspection.

20 Q. Based on your observation of the wire rope  
21 and assuming that wire rope was in a condition -- in  
22 relatively the same condition just prior to the

1 casualty, is it your position that the monthly  
2 inspections done by the crew of the Leon I should have  
3 revealed that that wire rope needed to be replaced?

4 MR. ASPERGER: That presumes facts not in  
5 evidence. Presumes that there were in fact monthly  
6 inspections by the Leon crew, so I'll object to it on  
7 that basis.

8 BY MR. CLYNE:

9 Q. Well, had there been an inspection say one  
10 month before the casualty, is it your opinion that that  
11 wire rope would have needed to be replaced?

12 A. Yes, sir.

13 Q. And what's the basis for that opinion?

14 A. If what the Coast Guard provided in their  
15 report is a reasonable basis for performing a rope  
16 inspection on shipboard cranes, they indicate all  
17 running wire ropes are to be visually inspected at each  
18 annual and retesting survey.

19 The crane owner or operator is to examine  
20 the wire rope, including the inconnections, at frequent  
21 intervals between surveys.

22 Item B, wire rope is not to be used in any

1 length of 10 diameters, the total number of -- if any  
2 -- if in any length of 10 diameters, the total number  
3 of visible broken wires exceeds 5 percent of the total  
4 number of wires if there is more than one broken wire  
5 immediately adjacent to an infitting, if the broken  
6 wires are concentrated in one area or one strand, or if  
7 the rope shows signs of excessive wear, corrosion,  
8 flattening, kinks, separation of the strands or wires,  
9 core failures or other defect which renders it unfit  
10 for use.

11 And based on that, I would say that the rope  
12 -- I think that comes from ABS's 1991 guide for  
13 certification of cranes notice Number 1, Section 7.11,  
14 inspection of rope -- of wire rope.

15 Based on that information or instruction to  
16 inspect, which is at frequent intervals between  
17 surveys, there were numerous places along the rope body  
18 that certainly exceeded the minimum requirements called  
19 out here and would have been rejectable.

20 And the lubricant on this rope was very  
21 heavy. When they lubbed it, I don't know, but the last  
22 guy that lubbed it should have -- he probably had a --

1 I would assume he had a dry enough rope to lube.

2 Even if it would still have some film, that  
3 looked like hand-applied lubricant to me, not  
4 machine-applied lubricant. Even in the hand  
5 application of lubricant he likely would -- or could  
6 easily have snagged his glove or lubrication applicator on  
7 the broken wires that were sticking up out of the rope.

8 So I think they should have been caught,  
9 yes, by a couple of parties, even the inspector,  
10 whoever that might have been, and the lubricator,  
11 whoever that might have been, if they were different  
12 people.

13 Q. You're talking now about monthly inspections  
14 and the inspector designated aboard the vessel,  
15 correct?

16 A. Correct.

17 Q. And are you aware of the fact that that very  
18 process that you described of holding the wire rope  
19 with gloves occurred when the wire ropes were removed  
20 from the prior vessel, the Yannis K?

21 A. No, sir.

22 Q. You're not aware of that?

1 case. That's what he's asking.

2 THE WITNESS: Yes.

3 BY MR. CLYNE:

4 Q. And is it your testimony that even though  
5 you don't know the clearance that a 1 millimeter  
6 difference in diameter of the wire rope would make --  
7 would make a difference in your -- strike that. Let me  
8 start over again.

9 Did you ever find any measurements of 29  
10 millimeters in the diameter of the wire rope when you  
11 measured it?

12 A. No, I did not.

13 MR. CLYNE: No further questions.

14 EXAMINATION BY COUNSEL FOR DEFENDANT

15 ETERNITY SHIPPING, LTD AND EUROCARRIERS

16 BY MR. WHITMAN:

17 Q. Let me follow up on one point. With regard  
18 to the size of the wire rope, the size of the sheave, I  
19 believe your earlier testimony had been to the effect  
20 that an oversized wire rope would ride on only two  
21 points in the sheave; is that right?

22 A. Yes.



1 Q. And that that would result in scrubbing of  
2 the wire rope; is that right?

3 A. It may -- there may be some over time and  
4 number of cycles -- there may be some damage accrued on  
5 those two bearing lines on the rope body. A lot has to  
6 do with cycles of lifts and load applied.

7 One time or two times may not -- in light  
8 loads may not leave any remarkable impression or  
9 flatten any wires off or do anything serious to the  
10 sheave, but over time if the sheave is not heat  
11 treated, it may wear into the sheave. If the sheave is  
12 harder than the rope, we may end up with metal loss on  
13 the rope as a result, so all of them are relative to  
14 activity going on.

15 Q. Let's assume for the moment that the sheave  
16 here was harder than the rope. What sort of physical  
17 evidence then would you expect to see on the wire rope  
18 that had been going over that sheave?

19 A. With very light loads and very little use,  
20 almost none. The naked eye probably couldn't detect  
21 the peening to the wire surfaces in the two tracks.  
22 You might actually pick up more indication by disturb

DEPOSITION OF R. MICHAEL PARNELL  
CONDUCTED ON FRIDAY, OCTOBER 7, 2005

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## 1 CERTIFICATE OF SHORTHAND REPORTER-NOTARY PUBLIC

2 I, Sherry L. Brooks, Notary Public, the officer  
3 before whom the foregoing deposition was taken, do  
4 hereby certify that the foregoing transcript is a true  
5 and correct record of the testimony given; that said  
6 testimony was taken by me stenographically and  
7 thereafter reduced to typewriting under my direction  
8 and that I am neither counsel for, related to, nor  
9 employed by any of the parties to this case and have no  
10 interest, financial or otherwise, in its outcome.

11 IN WITNESS WHEREOF, I have hereunto set my hand  
12 and affixed my notarial seal this 11th day of October  
13 2005.

14  
15 My commission expires:

16 June 1, 2007

17 *Sherry L. Brooks*  
18

19 NOTARY PUBLIC IN AND FOR  
20 THE STATE OF MARYLAND  
21  
22

